



**SIAS**

SASKATCHEWAN INSTITUTE OF  
APPLIED SCIENCE AND TECHNOLOGY

***SIAS On-Campus  
Certificate and Diploma Programs  
5 Year Summary  
1994-95 to 1998-99***

***Prepared by:***

***SIAS Planning, Research and Development Division  
Institutional Research Office***

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November 1999  
#99-22

**Saskatchewan Institute Of Applied  
Science and Technology**

***SIAST On-Campus  
Certificate and Diploma Programs  
5 Year Summary Report  
1994-95 to 1998-99***

Prepared by:  
SIAST Planning, Research and Development  
Institutional Research Office

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Report #99-22

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Planning, Research and Development Division

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## **Executive Summary**

For 1998-99

- Applications increased by 18% from the previous year
- Applications have increased in all divisions
- Enrollments decreased by 3.8%.
- Enrollments decreased in all divisions except in the Community Services Division.
- Seat Capacities increased by 80 seats.
- Graduates decreased in all divisions from 2268 in 1997-98 to 2087 in 1998-99.
- Leaver numbers have decreased in all divisions, except in the Technology Division.
- Application to Seat Capacity ratio for SIAST overall is 1.9.

## **Introduction**

SIAST offers a number of different programs of study. These programs are diverse in their content, method of delivery and location of delivery. The following report examines the SIAST On-Campus programs that are core funded and offered at the four campuses. Historical comparison provides a quick and easy way to examine SIAST's performance by division and by campus.

## **Sources of Data**

### **SIAST Education Equity Annual Monitoring Report**

The primary source of data for this report originates from an annual report produced by the SIAST Education Equity Program. In September of each year a report is produced called the SIAST Education Equity Program Annual Monitoring Report. This report reviews and summarizes, for each program, the previous academic year's application, enrollment, graduation and leaver activity in terms of the four defined equity groups.

Data for the SIAST Education Equity Program Annual Monitoring Report, and consequently for this report is collected and compiled from the SIAST Banner Student Record System. This data is typically queried in August and is effective for the previous academic year.

### **Registrar's Office**

Seat Capacity data was not available from Banner, therefore requested from the Registrar's Office. Each campus registrar's office provided a current and historical listing of capacities for programs offered at their location.

### **SIAST Calendar**

Programs frequently change their name and characteristics. The SIAST Calendar for the most recent academic year covered in this report was used as the official program name.

## **Definitions**

### **Academic Year**

The Academic Year is the period from July 1 to June 30 of the given year. For example, data in the tables under 98/9 would be for the academic year July 1, 1998 to June 30, 1999.

### **Applicants**

Number of potential students applying for admission into a program within the academic year. Applicants accepted would be enrolled to start in the program the following academic year. Programs extending over one year normally do not require application into upper years. Application into upper year programs could occur in situations where students have advanced standings or are returning after a period of absence.

### **Core Funded**

Programs classified under one of the six main program divisions. The Basic Education and Associated Studies Divisions are not included in this report. Programs funded under the general operating budget of SIAST.

**Division**

One of the six categories for programs based on the restructuring and re-organizing of SIAST. The six divisions included in this report are:

- Business and Agriculture
- Community Services
- Industrial Training
- Nursing
- Science and Health
- Technology

**Enrolled**

Number of individual students registered in programs during a specific period. Students can be attending full time or part time. Of the core-funded, on-campus students, 92% are enrolled full time.

**Extension Programs**

Programs not core funded, or included in this report.

**Graduates**

The number of students who have successfully completed all requirements of a program and have been awarded a certificate, diploma, applied certificate, advanced certificate or post-diploma certificate. Most multi-year programs do not have graduates after the first year (example: Mechanical Engineering Technology). A few programs allow the option of graduation after the first year with a certificate or continuation into the second year with graduation with a diploma (example: Youth Care Worker Certificate/Diploma).

**Leavers**

Number of students who have discontinued a program. Also known as Withdrawals. Note that not all students who discontinue their studies complete a leaver form.

**On-Campus**

Programs offered at one of the four campuses of SIAST.

- Kelsey Campus - Saskatoon
- Palliser Campus - Moose Jaw
- Wascana Campus - Regina
- Woodland Campus - Prince Albert and Meadow Lake

**Program Name**

The name of the program as indicated in the latest year's reported calendar. For this particular report, the name of the program as found in the 1998 - 1999 SIAST Calendar. Programs with 1&2, 3&4 or 5 after the name refer to the program and semesters. Programs with just a 1 or a 2 after their name refer to year one or year two of a multi-year program. Most program name changes are documented in the Notes column of the tables.

**Seat Capacity**

Actual number of budgeted seats available for students in a program or year of a program.

## **Limitations of Data**

### **Programs Included**

The programs included in this report are only those programs core funded that offer a certificate or diploma upon successful completion.

### **Programs Excluded**

The programs excluded in this report are of the following type:

- Extension Programs
- Off Campus Programs
- Outreach Programs
- Applied Certificate Programs
- Advanced Certificate Programs
- Post Diploma Certificate Programs
- Academic Partner Programs
- Apprenticeship Programs
- Basic Education Programs

## **Explanation of Application to Seat Capacity Ratios**

The application to seat capacity ratio is a good source of information on the supply and demand for SIAST training.

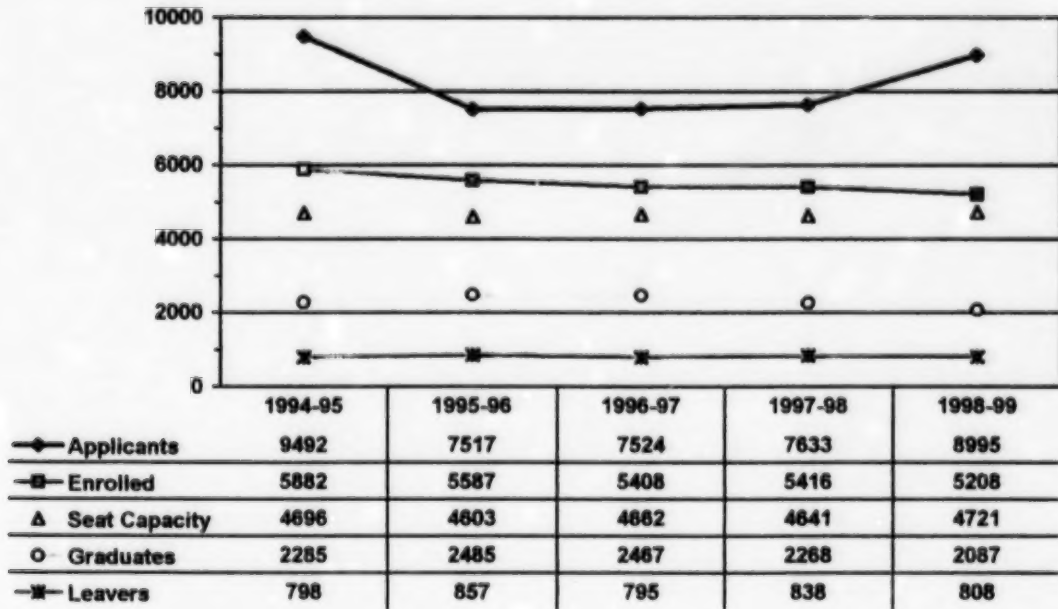
A ratio value of less than 1 would indicate there are more seats available in SIAST than there are applications. This would correspond to an over supply of seats or training opportunities.

A ratio of greater than 1 would mean there are more people applying to take training at SIAST, than SIAST can accommodate. In other words, there is a high demand for training.

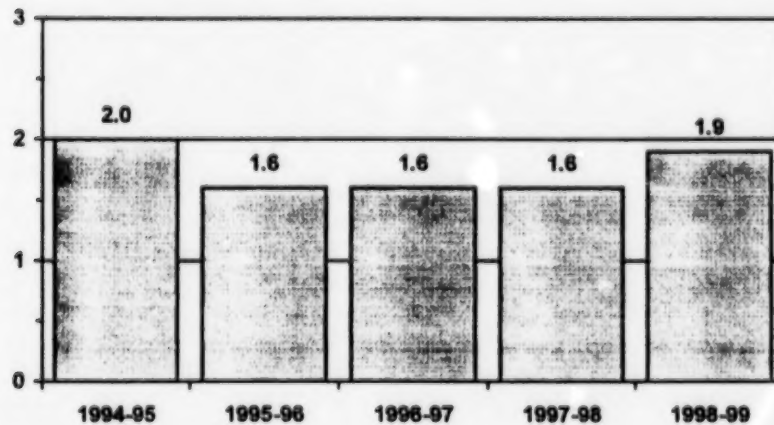
A high supply of seats (a low ratio value) or a high demand for training (a high ratio value) could possibly indicate inefficient use of resources. A ratio value close to 1 would indicate SIAST efficiently meeting the demand for training.

## Analysis of Data - SIAST

### Historical Trends



### Application/Seat Capacity Ratio



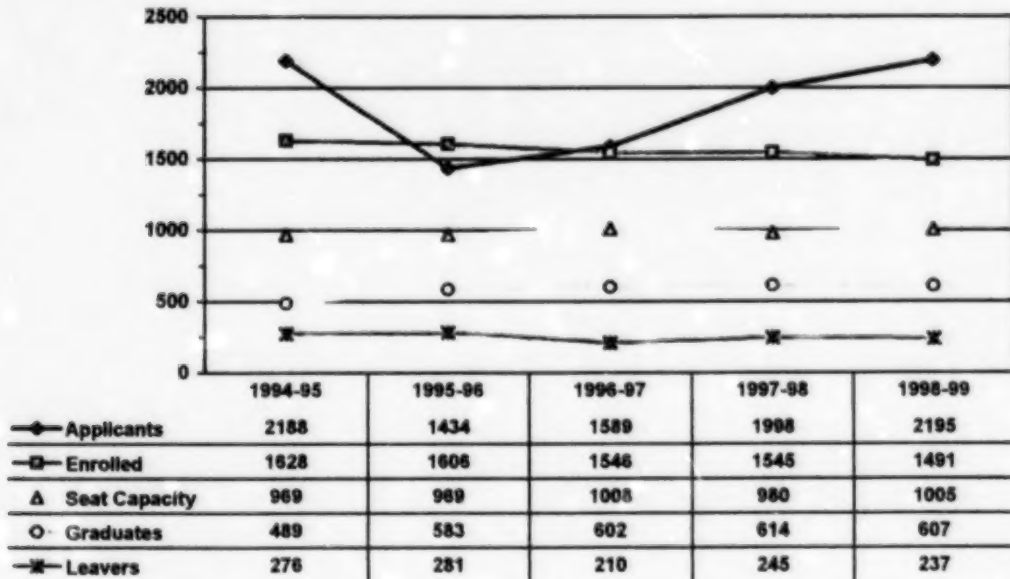


#### Observations and Comments

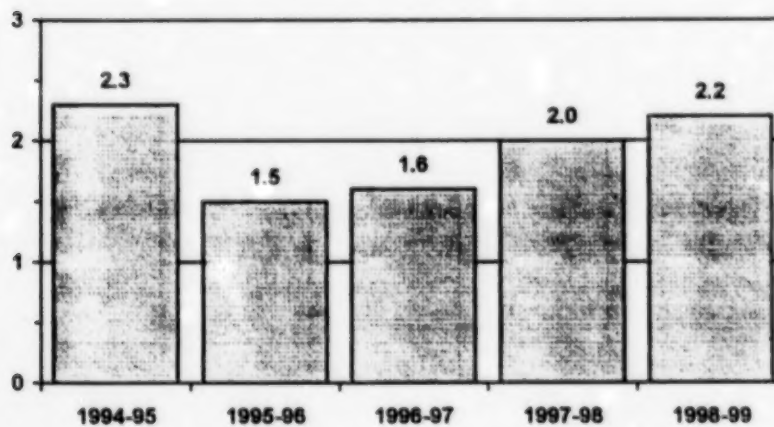
- Overall applications increased by almost 18% to 8995 from the previous year and have returned close to the 9000 level after dipping below 8000 for 3 years.
- Enrolment numbers decreased slightly from 5416 to 5208 - a decrease of only 3.8%.
- Seat Capacities have increased slightly since the previous year.
- Enrolment and Seat Capacities continue to follow a converging trend towards 5000. The difference between the Enrollment and the Seat Capacity levels in 1994-95 was 1186. In 1998-99 this difference was only 487. This can be regarded as a positive consequence in the reorganization of SIAST programs and a greater efficiency level in administering them.
- As a result of slightly decreasing enrolment numbers, graduate numbers for the subsequent year continue to be lower than the previous year, yet remain above 2000.
- Leaver numbers have decreased just over 3.5% since the previous year, and remain consistent around the 800 level.
- Application to Seat Capacity Ratio increased to 1.9 after a number of years around the 1.6 level.

## Analysis of Data - Business and Agriculture Division

### Historical Trends



### Application/Seat Capacity Ratio



### **Programs Included in this Division**

Accountancy  
Administration  
Agriculture Production  
Beef Management  
Business Administration  
Business Computer Programmer  
Business  
Computer Information Systems  
Computer System Support  
Entrepreneurship and Small Business

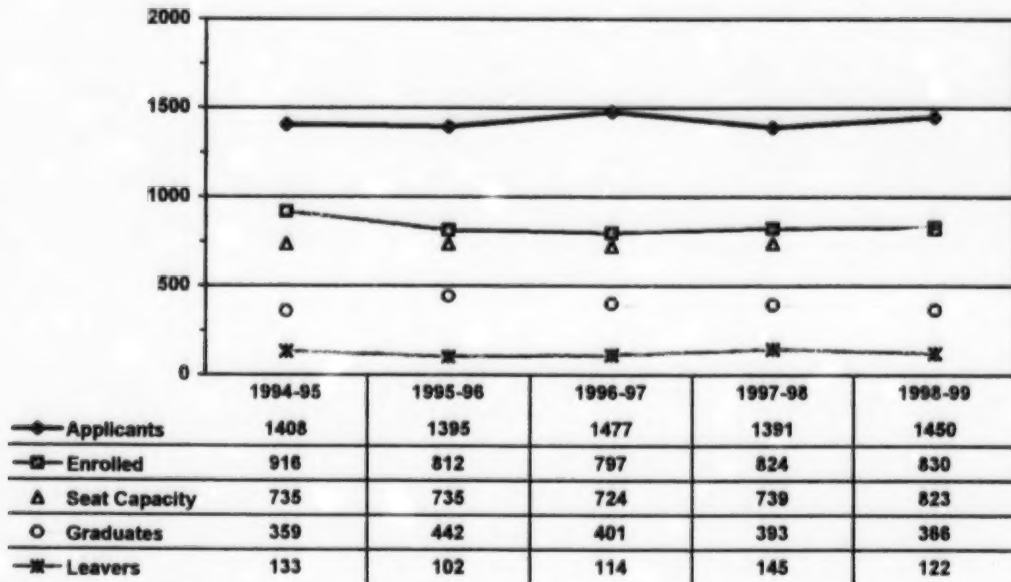
Farm Business Management  
Farm Mechanics  
Financial Services  
Human Resource Management  
Marketing  
Office Automation/Administration  
Office Education  
Office Technology/Office Education  
Pork Production Technician  
Public Administration

### **Observations and Comments**

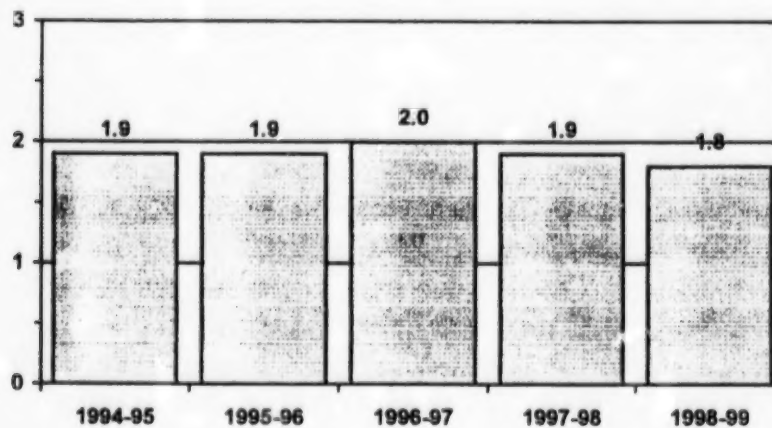
- Applications continue an increasing trend rising from 1998 to 2195, an increase of almost 10%.
- From 1995-96 to 1998-99 applications have increased over 50%.
- Enrolment numbers continue a steady, slow decline, dropping below 1500 for the first time.
- Seat Capacities have remained steady around the 1000 level.
- Enrolment and Seat Capacity differences have decreased from 659 in 1994-95 to 486 in 1998-99.
- Graduate numbers dropped slightly from the previous year and yet remain above the 600 level.
- Leaver numbers dropped slightly to 237 and remain lower than levels in 1994-95 and 1995-96.
- Application to Seat Capacity Ratio continues an increasing trend and approaches the 1994-95 level of 2.3.

## Analysis of Data - Community Services Division

### Historical Trends



### Application/Seat Capacity Ratio



### **Programs Included in this Division**

Applied Photography  
Audiovisual Technician  
Barber/Stylist  
Ceramist  
Chemical Dependency Worker  
Corrections Worker  
Cosmetologist: Pre-employment  
Early Childhood Education  
Food Services Administration  
Graphic Arts Production  
Hotel and Restaurant Administration

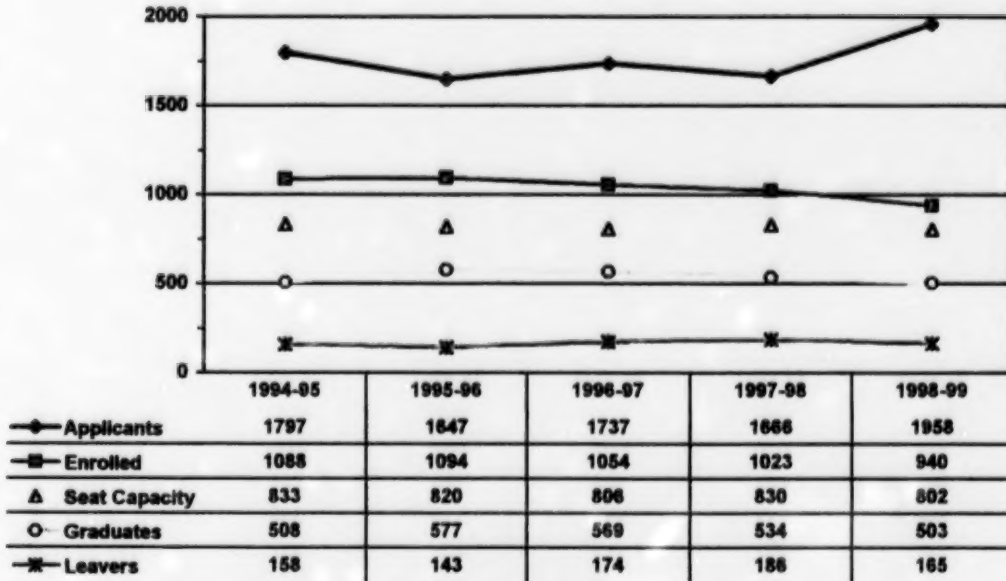
Library & Information Technology  
Multimedia Communications  
Professional Cook  
Professional Cooking  
Recreation & Leisure  
Rehabilitation Worker  
Retail Meat Cutting  
Short Order Cook  
Weaver  
Youth Care Worker

### **Observations and Comments**

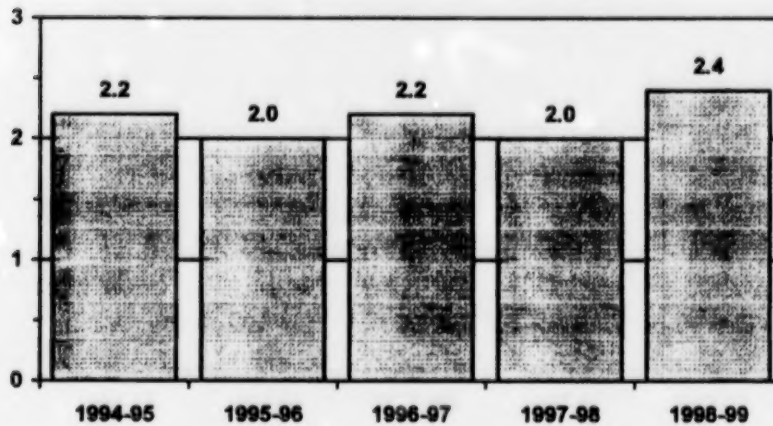
- Applications continue to approach the 1500 level with 1450 for the latest period.
- Enrollment numbers remained relatively the same as the previous year - 830.
- Seat Capacity numbers increased in the latest period and are now only 7 short of the enrolment numbers.
- Graduate numbers continue a small decreasing trend since a high of 442 in 1995-96.
- Leaver numbers decreased 16% from the previous year to 122.
- Application to Seat Capacity ratio decreased slightly to 1.8 from the previous year.

## Analysis of Data - Industrial Training Division

### Historical Trends



### Application/Seat Capacity Ratio



### **Programs Included in this Division**

Agriculture Machinery Technician  
Auto Body Technician  
Automotive Service Technician  
Automotive Service Technology  
Building Systems Technician/Operator  
Carpenter: Pre-employment  
Carpentry  
Drafting Technician  
Electrician  
Electronics Communications Technician  
Electronics Service Technician

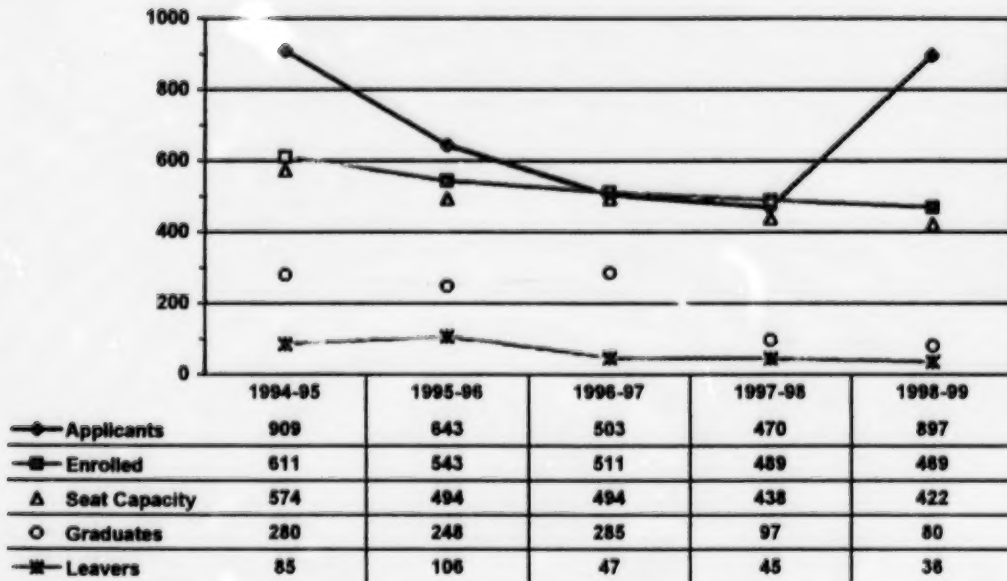
Heavy Equipment Mechanics  
Industrial Mechanics  
Machine Shop  
Major Appliance Servicing  
Outdoor Power Equipment Technician  
Parts Management Technician  
Refrigeration and Air Conditioning  
Truck & Transport Mech. Repair Technician  
Welder: Pre-employment  
Welding

### **Observations and Comments**

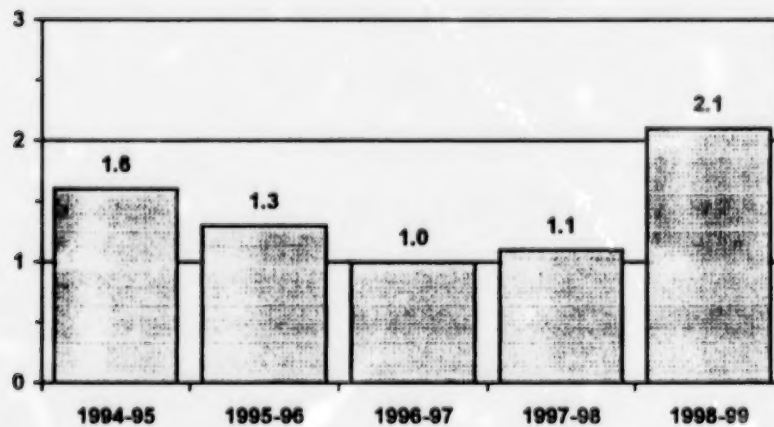
- Applications approach the 2000 level, increasing to 1958 - an 18% increase over the previous year.
- Enrollment dropped below the 1000 level for the first time in 5 years.
- Seat Capacity remained around the 800 level.
- Enrollment to Seat Capacity difference decreased from 253 in 1994-95 to 138 in 1998-99.
- Graduate numbers decreased slightly but remained above 500.
- Leaver numbers decreased 11% from the previous year to 165.
- Application to Seat Capacity Ratio increased from 2.0 in 1997-98 to 2.4 in 1998-99. This represents the highest level in 5 years.

## Analysis of Data - Nursing Division

### Historical Trends



### Application/Seat Capacity Ratio





### **Programs Included in this Division**

Diploma Nursing  
Nursing Education Program  
Occup. Ther. Asst./ Phys. Ther. Asst.

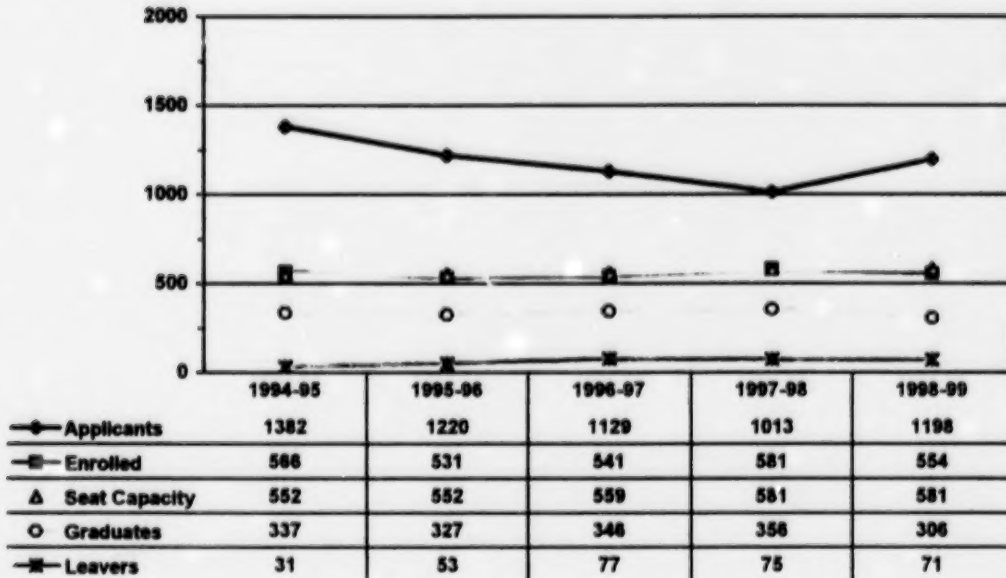
Practical Nursing  
Psychiatric Nursing

### **Observations and Comments**

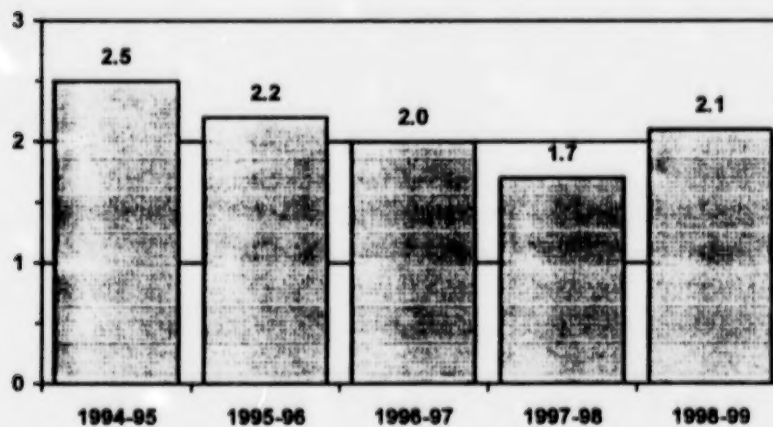
- This division has undergone significant revision over the past few years.
- Diploma Nursing and Psychiatric Nursing no longer offered yet included for historical purposes.
- Application levels increased sharply over the previous year - over 90%. This is due to the increase of additional seats in the NEPS and Practical Nursing program.
- Enrolment numbers closely follow Seat Capacity numbers.
- Graduate numbers have dropped significantly but primarily due to the NEPS program restructuring.
- Leaver numbers remain consistently low.
- Application to Seat Capacity Ratio increased significantly from 1.1 to 2.1 due to the increase in applications.

## Analysis of Data - Science and Health Division

### Historical Trends



### Application/Seat Capacity Ratio



### **Programs Included in the Division**

Biotechnology  
Chemical Technology  
Combined Lab & X-Ray Technician  
Dental Assisting  
Dental Hygiene  
Emergency Medical Technician  
EMT Advanced

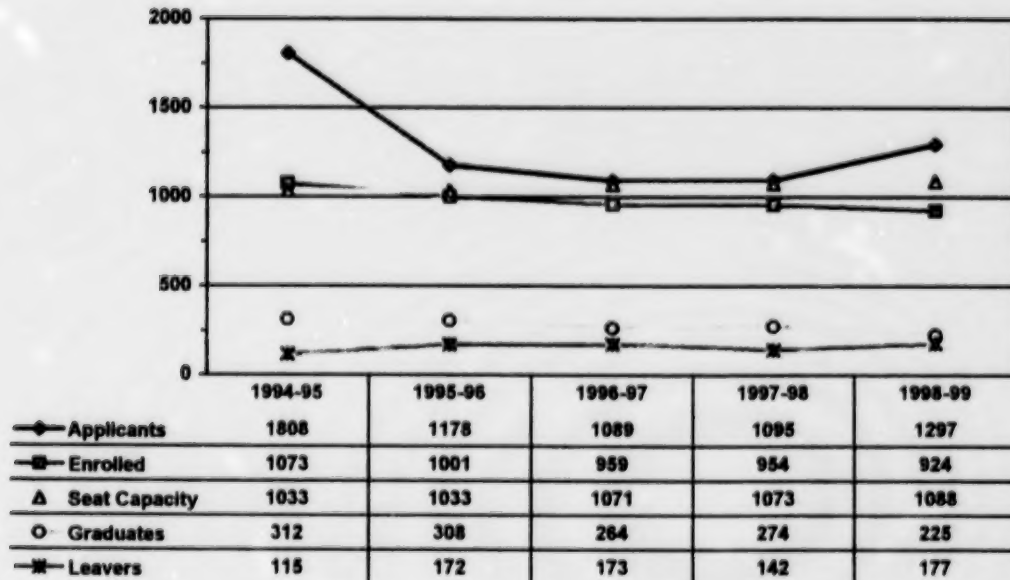
EMT Paramedic  
Health Record Technology  
Home Care/Special Care Aide  
Medical Laboratory Technology  
Medical Radiologic Technology  
Pharmacy Technician  
Veterinary Technology

### **Observations and Comments**

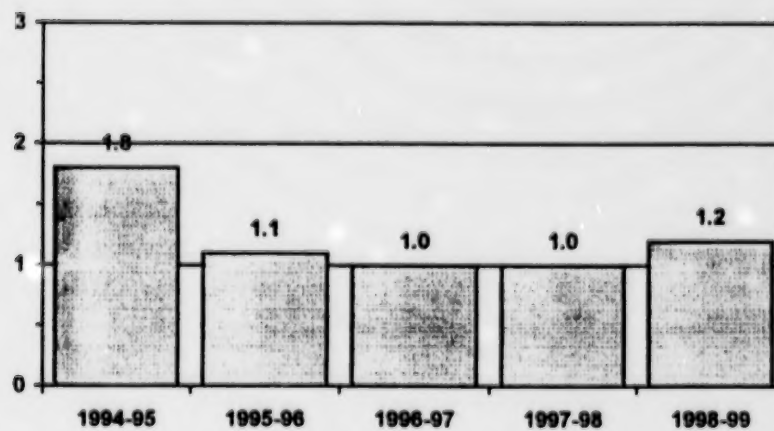
- Application levels rebounded 18% to 1198 from previous year's level.
- Enrolment and Seat Capacity numbers continue to be relatively the same around the 554 level.
- Graduate numbers decreased slightly to 306.
- Leaver numbers continued to follow a decreasing trend started in 1996-97 to below 100.
- Application to Seat Capacity ratio reversed a decreasing trend by increasing to 2.1 from 1.7.

## Analysis of Data - Technology Division

### Historical Trends



### Application/Seat Capacity Ratio



### **Programs Included in this Division**

Advanced Video Systems  
Architectural Engineering Technology  
CAD/CAM Engineering Technology  
CADD Technology  
Civil Engineering Technology  
Computer Engineering Technology  
Computer Systems Technology  
Electrical Engineering Technology  
Electronics Engineering Technology  
Electronics Service Technician  
Environmental Engineering Technology

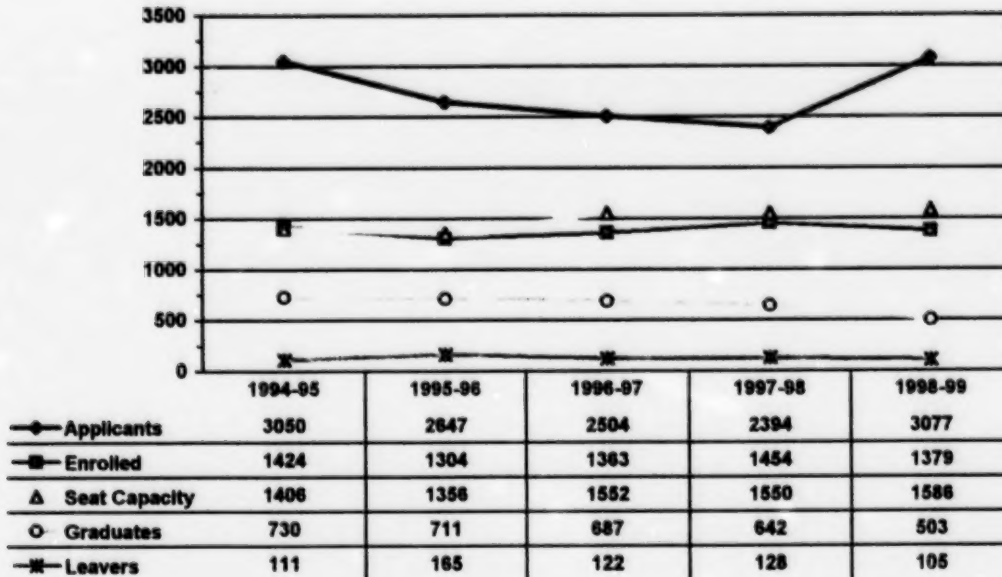
Geomatics Technology  
Industrial Electronics Technician  
Industrial Electronics Technology  
Instrumentation Engineering Technology  
Integrated Resource Management  
Mechanical Engineering Technology  
Micro-Electronics Technician  
Power Engineering  
Water and Wastewater Technician  
Water Resource Engineering Technology

### **Observations and Comments**

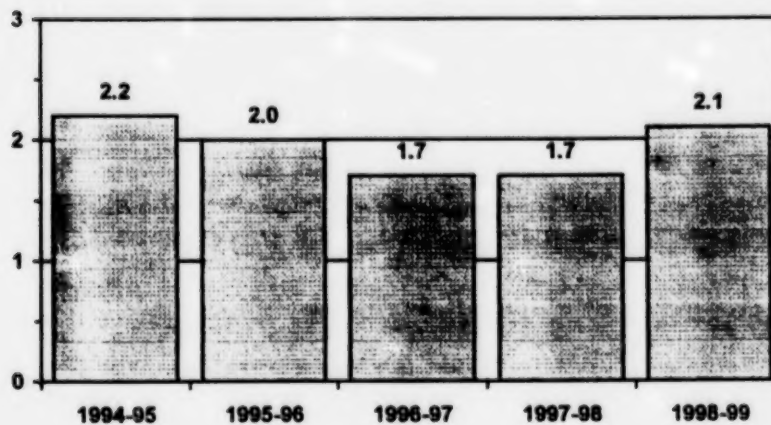
- Applications rebounded from 1095 in 1997-98 to just under 1300 (1297) in 1998-99.
- Enrollments decreased slightly from the previous year - 3%.
- Seat Capacity levels remained constant - just above the 1000 level.
- Graduate numbers decreased from 274 to 225.
- Leaver numbers increased from 142 in 1997-98 to 177 in 1998-99 - an increase of almost 25%.
- Application to Seat Capacity ratio increased slightly to 1.2.

## Analysis of Data - Kelsey Campus

### Historical Trends



### Application/Seat Capacity Ratio



### **Programs Included at this Campus**

Agriculture Machinery Technician  
Auto Body Technician  
Automotive Service Technician  
Automotive Service Technology  
Biotechnology  
CAD/CAM Engineering Technology  
Chemical Technology  
Combined Lab & X-Ray Technician  
Computer Systems Technology  
Diploma Nursing  
Early Childhood Education  
Food Services Administration  
Heavy Equipment Mechanics  
Home Care/Special Care Aide  
Hotel and Restaurant Administration  
Industrial Electronics Technician  
Industrial Electronics Technology  
Industrial Mechanics

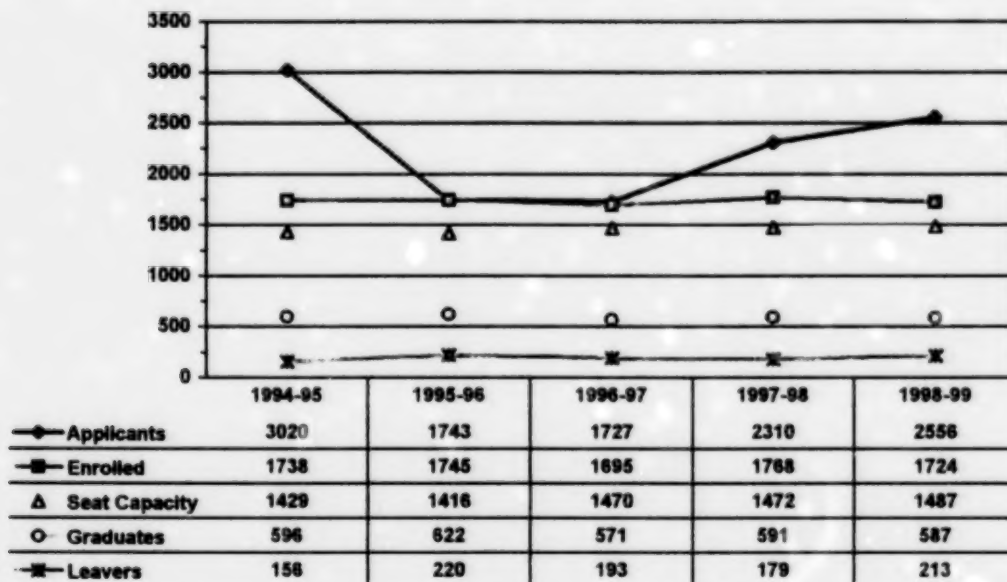
Library & Information Technology  
Machine Shop  
Mechanical Engineering Technology  
Medical Laboratory Technology  
Medical Radiologic Technology  
Nursing Education Program  
Parts Management Technician  
Pharmacy Technician  
Power Engineering  
Professional Cooking  
Recreation & Leisure  
Refrigeration and Air Conditioning  
Rehabilitation Worker  
Retail Meat Cutting  
Veterinary Technology  
Welding  
Youth Care Worker

### **Observations and Comments**

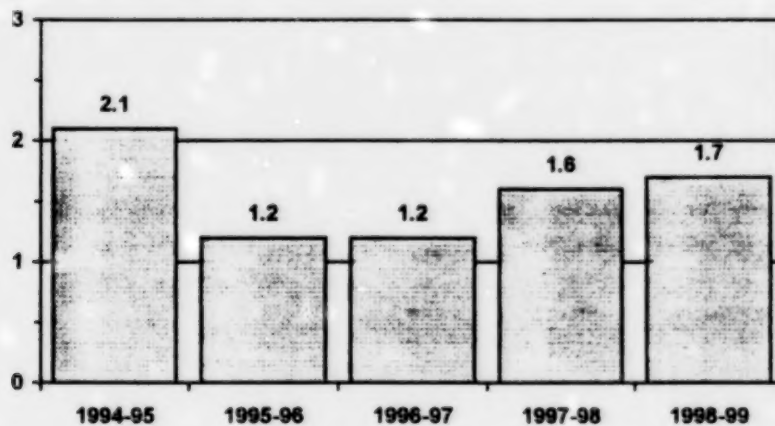
- Applications rebounded from a low of 2395 to just over 3000 in 1998-99.
- Enrolment numbers decreased 5% from the previous year to a level of 1379.
- Seat Capacities continued to be over 1500.
- Graduate numbers decreased from 642 to 503 - possibly as a consequence of the Nursing program reorganization.
- Leaver numbers continue to follow a decreasing trend, dropping to just over 100.
- The increase in applications resulted in a higher Application to Seat Capacity ratio.

## Analysis of Data - Palliser Campus

### Historical Trends



### Application/Seat Capacity Ratio





### **Programs Included at this Campus**

Accountancy  
Administration  
Advanced Video Systems  
Architectural Engineering Technology  
Auto Body Technician  
Automotive Service Technician  
Business I  
CADD Technology  
Carpentry  
Civil Engineering Technology  
Computer Engineering Technology  
Computer Information Systems  
Electrical Engineering Technology  
Electrician  
Electronics Engineering Technology  
Electronics Service Technician

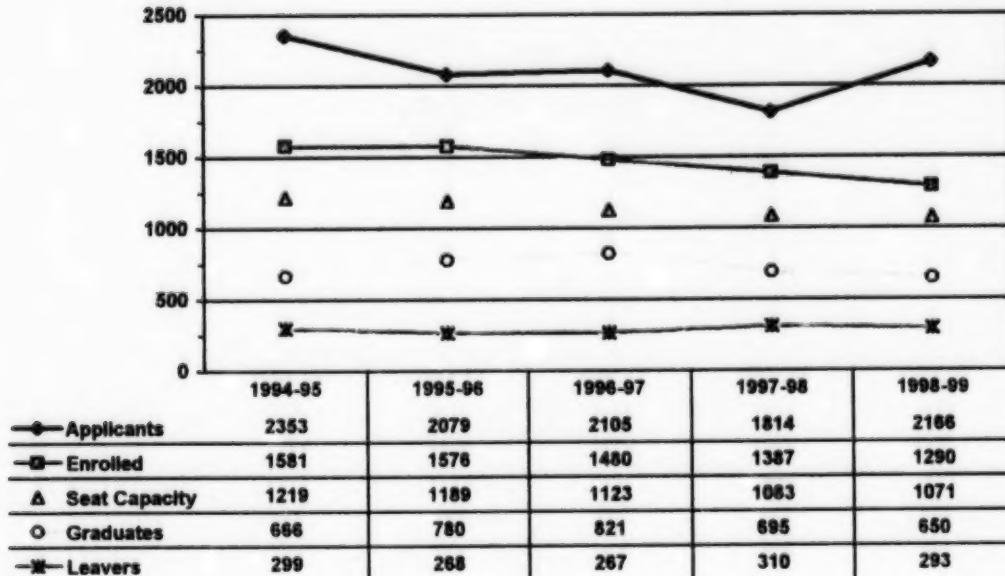
Environmental Engineering Technology  
Financial Services  
Geomatics Technology  
Human Resource Management  
Instrumentation Engineering  
Technology  
Marketing  
Office Automation/Administration  
Office Education  
Professional Cooking  
Public Administration  
Water and Wastewater Technician  
Water Resource Engineering  
Technology  
Welding

### **Observations and Comments**

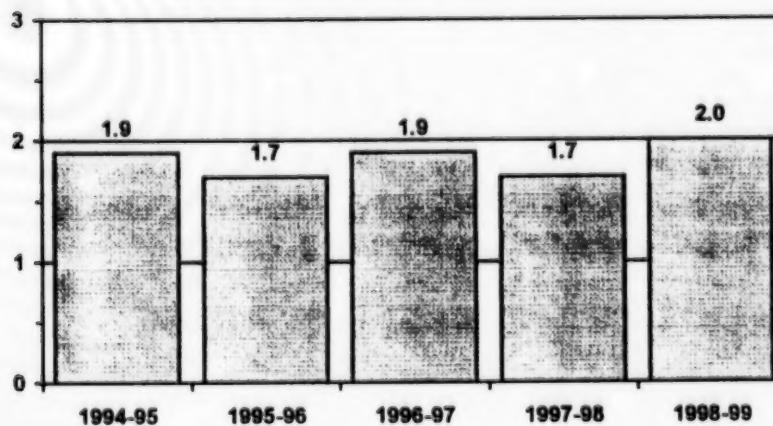
- Applications rebounded from a low of 1727 to just over 2550 in 1998-99.
- Enrolment numbers decreased 5% from the previous year to a level of 1379.
- Seat Capacity increased slightly - less than 2% over the previous year.
- Graduate numbers decreased slightly - less than 1% over the previous year.
- Leaver numbers increased 19% from 179 in 1997-98 to 213 in 1998-99.
- The increase in applications to Palliser resulted in a higher Application to Seat Capacity ratio.

## Analysis of Data - Wascana Campus

### Historical Trends



### Application/Seat Capacity Ratio



### **Programs Included at this Campus**

Agriculture Production  
Applied Photography  
Auto Body Technician  
Automotive Service Technician  
Beef Management  
Building Systems Technician/Operator  
Dental Assisting  
Dental Hygiene  
Diploma Nursing  
Drafting Technician  
Early Childhood Education (Certificate)  
Early Childhood Education (Diploma)  
Electronics Communications Tech.  
Emergency Medical Technician  
EMT Advanced  
EMT Paramedic

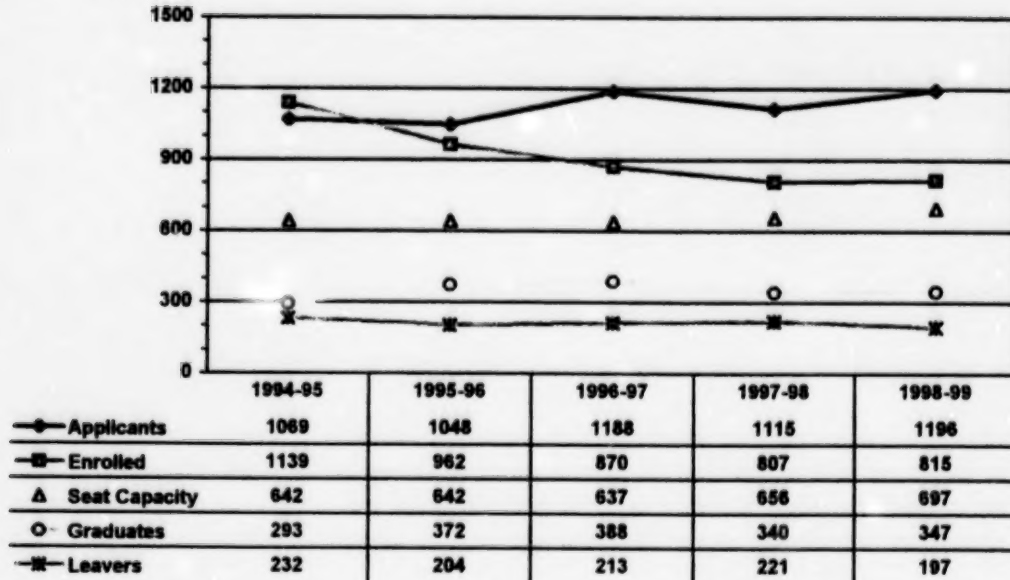
Farm Business Management  
Farm Mechanics  
Graphic Arts Production  
Health Record Technology  
Machine Shop  
Major Appliance Servicing  
Multimedia Communication  
Nursing Education Program  
Office Education  
OTA/PTA  
Outdoor Power Equipment Technician  
Pork Production Technician  
Practical Nursing  
Psychiatric Nursing  
Welding

### **Observations and Comments**

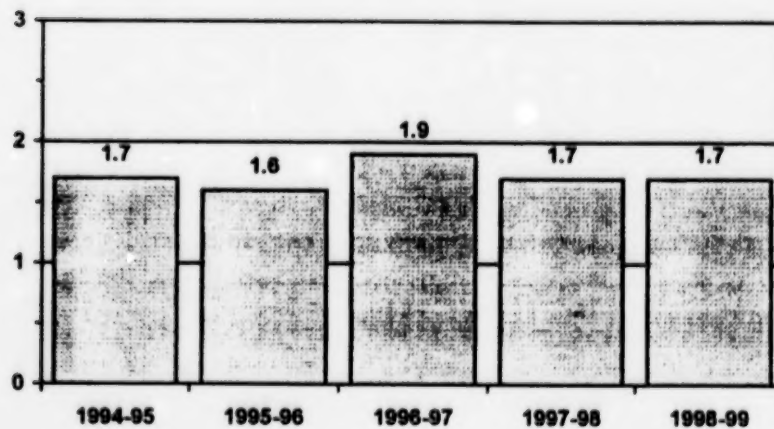
- Applications rebounded sharply from 1814 to 2166.
- Enrolment numbers continued a decreasing trend, dropping 7% from the previous year to a level of 1290.
- Seat Capacity numbers leveled off at 1071.
- Difference between Enrolment and Seat Capacity continued to decrease.
- Graduate numbers decreased - less than 7% over the previous year to 650.
- Leaver numbers decreased back below 300.
- Application to Seat Capacity ratio slightly higher than levels in previous 4 years.

## Analysis of Data - Woodland Campus

### Historical Trends



### Application/Seat Capacity Ratio



### **Programs Included at this Campus**

Audiovisual Technician  
Barber/Stylist  
Business Administration  
Business Computer Programmer  
Carpenter: Pre-employment  
Ceramist  
Chemical Dependency Worker (Cert.)  
Chemical Dependency Worker (Dip.)  
Computer System Support  
Corrections Worker  
Cosmetologist: Pre-employment  
Early Childhood Education (Certificate)  
Early Childhood Education (Diploma)  
Electrician

Electronics Service Technician  
Entrepreneurship and Small Business  
Heavy Equipment Mechanic  
Integrated Resource Management  
Micro-Electronics Technician  
Multimedia Communications  
Office Technology/Office Education  
Outdoor Power Equipment  
Professional Cook  
Short Order Cook  
Truck & Transport Mechanical Repair  
Technician  
Weaver  
Welder: Pre-employment

### **Observations and Comments**

- Applications continue an increasing trend, approaching the 1200 level.
- Enrollment numbers appear to be reversing a downward trend.
- Seat Capacity numbers increased 6% over the previous year.
- Difference between Enrolment and Seat Capacity continues to decrease dramatically from 497 in 1994-95 to 118 in 1998-99
- Graduate numbers were at a similar level as the previous year.
- Leaver numbers decreased 11% from 221 to 197.
- Application to Seat Capacity ratio at a similar level as previous years.

## **Conclusion**

Applications are on the rise and SIAST is hard pressed to accommodate this increased demand for technical and professional programs.

Of particular concern is the high application to seat capacity ratio in the Industrial Division. Enrolment in this division has dropped by more than the reduction in seat capacity. Industry has expressed concern that they cannot find sufficient numbers of skilled trades people. These factors would seem to indicate that this sector requires further attention.

The number of graduates is also decreasing (by 8%). These graduates are based on enrolment figures from the previous year and hence the decline of 3.8% in enrolment does not impact the 1998-99 graduates. Our SIAST Retention Study, which was conducted a few years ago, showed a strong reverse correlation with graduation rates and an expanding economy. Our economy was expanding last year and hence this may once again explain a drop of graduates.

The leaver numbers are declining; however, this may be misleading since not all discontinuing students complete a leaver form. Further analysis is required to determine the major reasons for leaving.

## **Appendix A: Tables**

The following tables list the Seat Capacity, Applicants, Enrolled, Graduates and Leavers.

Data is listed for each SIAST On Campus Certificate and Diploma program and is summarized by division. Campus location for each program is also listed.

SIAST Totals and special notes are at the end.





Program Name (as in 1989-90 Catalog)	Campus Capacity					Enrolled					Graduates					Leavers					
	88-89	87-88	86-87	85-86	84-85	88-89	87-88	86-87	85-86	84-85	88-89	87-88	86-87	85-86	84-85	88-89	87-88	86-87	85-86	84-85	
Agribusiness Management Tech 1	38	38	38	38	38	84	81	74	74	74	22	30	38	36	36	15	18	27	24	15	0
Agribusiness Management Tech 2	38	38	38	38	38	0	1	0	0	0	32	30	28	24	24	15	18	27	24	15	0
Auto Body Technician	14	14	14	14	14	52	46	51	51	51	52	14	14	14	14	25	6	12	9	11	0
Auto Body Technician	28	28	28	28	28	24	24	24	24	24	24	28	28	28	28	12	12	19	13	17	0
Automotive Service Technician	38	38	38	38	38	60	58	63	63	63	47	44	47	44	44	15	25	21	17	10	13
Automotive Service Technician	38	38	38	38	38	54	54	54	54	54	68	71	74	71	71	32	16	22	20	1	1
Automotive Service Technician	28	28	28	28	28	57	58	61	61	61	42	38	42	38	37	11	12	13	13	18	10
Automotive Service Technician	28	28	28	28	28	83	84	84	84	84	68	68	68	68	68	1	1	16	18	3	1
Automotive Service Technician	28	28	28	28	28	20	23	20	20	20	28	27	24	24	24	12	10	11	18	1	1
Automotive Service Technician	28	28	28	28	28	33	33	33	33	33	15	14	14	14	14	6	6	11	18	1	1
Building Systems Technician/Operator	24	24	24	24	24	38	38	33	33	33	25	40	41	32	32	11	9	16	10	9	2
Building Systems Technician/Operator	24	24	24	24	24	58	53	53	53	53	58	19	21	25	37	11	9	16	10	9	2
Building Systems Technician/Operator	14	14	14	14	14	7	12	13	15	14	8	9	12	13	12	2	1	2	3	0	4
Building Systems Technician/Operator	14	14	14	14	14	59	53	53	53	53	44	39	13	14	14	13	12	14	13	10	0
Building Systems Technician/Operator	24	24	24	24	24	96	87	59	53	48	24	24	23	24	20	24	21	19	18	20	0
Building Systems Technician/Operator	24	24	24	24	24	66	75	57	50	42	43	40	39	34	40	21	25	20	11	0	1
Building Systems Technician/Operator	24	24	24	24	24	51	51	51	51	51	63	60	67	77	86	8	32	17	21	18	0
Building Systems Technician/Operator	24	24	24	24	24	4	12	12	12	12	12	17	10	15	7	0	13	8	2	4	1
Building Systems Technician/Operator	24	24	24	24	24	118	123	110	118	118	52	52	52	52	52	40	36	46	48	43	4
Building Systems Technician/Operator	24	24	24	24	24	42	43	42	43	42	43	14	14	14	14	14	14	14	14	15	0
Building Systems Technician/Operator	24	24	24	24	24	77	80	82	82	82	23	25	24	24	24	22	24	24	24	21	1
Building Systems Technician/Operator	24	24	24	24	24	35	35	35	35	35	49	48	48	48	48	4	6	12	9	4	12
Building Systems Technician/Operator	24	24	24	24	24	28	28	28	28	28	25	25	25	25	25	4	6	12	9	4	12
Building Systems Technician/Operator	24	24	24	24	24	31	31	31	31	31	29	28	28	28	28	5	13	11	29	17	6
Building Systems Technician/Operator	24	24	24	24	24	38	38	38	38	38	31	29	28	28	28	5	13	11	29	17	6
Building Systems Technician/Operator	24	24	24	24	24	26	26	26	26	26	34	31	31	31	31	20	21	22	21	8	7
Building Systems Technician/Operator	24	24	24	24	24	75	75	75	75	75	78	78	78	78	78	33	31	31	27	23	20
Building Systems Technician/Operator	24	24	24	24	24	40	42	33	33	33	33	33	33	33	33	14	14	14	11	8	12
Building Systems Technician/Operator	24	24	24	24	24	31	31	31	31	31	33	33	33	33	33	8	12	12	6	4	4
Building Systems Technician/Operator	24	24	24	24	24	50	50	50	50	50	59	59	59	59	59	38	15	15	10	2	18
Building Systems Technician/Operator	24	24	24	24	24	14	14	14	14	14	20	18	18	18	18	3	8	8	6	8	6
Building Systems Technician/Operator	24	24	24	24	24	5	5	5	5	5	15	10	10	10	10	2	7	5	2	8	2
Building Systems Technician/Operator	24	24	24	24	24	117	105	96	96	96	44	44	44	44	44	42	34	34	34	16	3
Building Systems Technician/Operator	24	24	24	24	24	69	69	69	69	69	57	56	56	56	56	52	26	23	24	28	1
Building Systems Technician/Operator	24	24	24	24	24	104	103	61	100	100	57	56	56	56	56	22	22	22	15	11	0
Building Systems Technician/Operator	24	24	24	24	24	84	70	82	49	68	25	24	24	24	24	22	15	11	0	1	2
Building Systems Technician/Operator	24	24	24	24	24	173	168	173	167	177	147	137	137	137	137	53	53	53	53	18	14
Building Systems Technician/Operator	24	24	24	24	24	185	188	185	185	185	195	195	195	195	195	53	53	53	53	18	14
Building Systems Technician/Operator	24	24	24	24	24	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
Building Systems Technician/Operator	24	24	24	24	24	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
Building Systems Technician/Operator	24	24	24	24	24	100	112	-	-	-	8	51	58	77	-	40	107	98	114	-	-
Building Systems Technician/Operator	24	24	24	24	24	263	111	0	-	-	80	86	-	-	-	28	0	-	-	-	-
Building Systems Technician/Operator	24	24	24	24	24	383	155	-	-	-	188	131	134	-	-	0	0	-	-	-	-
Building Systems Technician/Operator	24	24	24	24	24	6	3	146	-	-	108	112	0	-	-	0	0	-	-	-	-
Building Systems Technician/Operator	24	24	24	24	24	81	87	104	104	79	14	14	13	11	-	13	13	12	10	-	-
Building Systems Technician/Operator	24	24	24	24	24	183	83	84	88	109	50	46	44	49	57	38	33	58	28	27	13
Building Systems Technician/Operator	24	24	24	24	24	72	72	-	-	-	17	140	-	-	-	71	77	-	-	-	-
Building Systems Technician/Operator	24	24	24	24	24	50	50	60	-	-	4	8	-	-	-	51	53	57	-	-	-
Building Systems Technician/Operator	24	24	24	24	24	470	470	503	483	505	488	488	488	488	488	488	488	488	488	488	488
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
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Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
Building Systems Technician/Operator	24	24	24	24	24	433	433	433	433	433	433	433	433	433	433						

